

## IN THE CLAIMS

1. (Currently Amended) A method comprising:
  - identifying data for transmission;
  - determining ~~a number of how many~~ time-slots are available for the transmission;
  - identifying a plurality of data packet types that fit into the available time-slots;

and

selecting, from the ~~plurality of identified~~ data packet types, a data packet type to transmit a portion of the data in accordance with characteristics of the transmission.
2. (Currently Amended) The method of claim 1, wherein selecting, from the ~~plurality of identified~~ data packet types, a data packet type to transmit a portion of the data comprises identifying a data packet type from the ~~plurality of identified~~ data packet types which can be used to transmit a largest portion of the data within the time-slots available.
3. (Previously Presented) The method of claim 1, wherein the data includes at least a minimum amount of data required by the data packet type.
4. (Currently Amended) The method of claim 1, further comprising identifying a data packet type from the ~~plurality of identified~~ data packet types to transmit all the data.
5. (Currently Amended) A method comprising:
  - identifying data for transmission;
  - determining ~~a number of how many~~ time-slots are available for the transmission;

and

identifying a plurality of data packets that fit into the available time-slots and are  
of a data packet type from a plurality of data packet types which is least prone to a  
transmission error; and

selecting, from the identified data packet types, a data packet type to transmit a  
portion of the data in accordance with characteristics of the transmission.

6. (Currently Amended) A method comprising:

identifying data for transmission;  
determining ~~a number of how many~~ time-slots are available for the transmission;  
and  
identifying a plurality of data packets that fit into the available time-slots and  
which can be transmitted in a transmitter logic low power mode; and  
selecting, from the identified data packet types, a data packet type to transmit a  
portion of the data in accordance with characteristics of the transmission.

7. (Currently Amended) A computer-readable medium having stored thereon a set of instructions, which when executed by a processor, cause the processor to perform a method comprising:

identifying data for transmission;  
determining ~~a number of how many~~ time-slots are available for the transmission;  
identifying a plurality of data packet types that fit into the available time-slots;  
and  
selecting, from the plurality of identified data packet types, a data packet type to transmit a portion of the data in accordance with characteristics of the transmission.

8. (Currently Amended) The medium of claim 7, wherein selecting, from the plurality of

identified data packet types, a data packet type to transmit a portion of the data comprises identifying a data packet type from the plurality of identified data packet types which can be used to transmit a largest portion of the data within the time-slots available.

9. (Previously Presented) The medium of claim 7, wherein the data includes at least a minimum amount of data required by the data packet type.

10. (Currently Amended) The medium of claim 7, further comprising identifying a data packet type from the plurality of identified data packet types to transmit all the data.

11. (Currently Amended) A computer-readable medium having stored thereon a set of instructions, which when executed by a processor, cause the processor to perform a method comprising:

identifying data for transmission;

determining a number of how many time-slots are available for the transmission;

and

identifying a plurality of data packets that fit into the available time-slots and are of a data packet type from a plurality of data packet types which is least prone to a transmission error; and

selecting, from the identified data packet types, a data packet type to transmit a portion of the data in accordance with characteristics of the transmission.

12. (Currently Amended) A computer-readable medium having stored thereon a set of instructions, which when executed by a processor, cause the processor to perform a method comprising:

identifying data for transmission;

determining a number of how many time-slots are available for the transmission;  
and

identifying a plurality of data packets that fit into the available time-slots and  
which can be transmitted in a transmitter logic low power mode; and  
selecting, from the identified data packet types, a data packet type to transmit a  
portion of the data in accordance with characteristics of the transmission.

13. (Currently Amended) A computing system comprising:

a first programmable module to identify data for transmission;  
a second programmable module to determine a number of how many time-slots  
are available for the transmission; and  
a third programmable module to identify a plurality of data packet types that fit  
into the available time-slots, and to select, from the plurality of identified data packet  
types, a data packet type to transmit a portion of the data in accordance with  
characteristics of the transmission.

14. (Original) The computing system of claim 13, wherein the computing system includes  
a computer network router.

15. (Currently Amended) A computing system comprising:

a first programmable module to identify data for transmission;  
a second programmable module to determine a number of how many time-slots  
are available for the transmission; and  
a third programmable module to identify a plurality of data packets that fit into  
the available time-slots and are of a data packet type from a plurality of data packet types  
which is least prone to a transmission error, and to select, from the identified data packet

types, a data packet type to transmit a portion of the data in accordance with characteristics of the transmission.

16. (Currently Amended) A computing system comprising:

- a first programmable module to identify data for transmission;
- a second programmable module to determine a number of how many time-slots are available for the transmission; and
- a third programmable module to identify a plurality of data packets that fit into the available time-slots and which can be transmitted in a transmitter logic low power mode, and to select, from the identified data packet types, a data packet type to transmit a portion of the data in accordance with characteristics of the transmission.